



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/049,967
Source: PCT10
Date Processed by STIC: 03/01/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

PT10

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/049,967

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
 (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ✓ Use of <220>
Sequence(s) 20-28 missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



PCT10

**Does Not Comply
Corrected Diskette Needed**

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/049,967

DATE: 03/01/2002
TIME: 14:49:53

Input Set : A:\P23294pc.app
Output Set: N:\CRF3\03012002\J049967.raw

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

Errors on pp. 4+5

```

3 <110> APPLICANT: Imperial College Innovations Limited
5 <120> TITLE OF INVENTION: Methods of treatment
7 <130> FILE REFERENCE: ICOY/P23294PC
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/049,967
C--> 10 <141> CURRENT FILING DATE: 2002-02-18
12 <160> NUMBER OF SEQ ID NOS: 32
14 <170> SOFTWARE: PatentIn Ver. 2.0
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 25
18 <212> TYPE: DNA
19 <213> ORGANISM: Artificial Sequence
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
24 <400> SEQUENCE: 1
25 agacggatac catggccgag gacgc
27 <210> SEQ ID NO: 2
28 <211> LENGTH: 30
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
35 <400> SEQUENCE: 2
36 agcatgaatt ctcaacgttg gttggcttca
38 <210> SEQ ID NO: 3
39 <211> LENGTH: 29
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
46 <400> SEQUENCE: 3
47 catctttgtt gcagctgcgt tggcttcat
49 <210> SEQ ID NO: 4
50 <211> LENGTH: 30
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
57 <400> SEQUENCE: 4
58 catctttgtt gcctttgcgt tggcttccat
60 <210> SEQ ID NO: 5
61 <211> LENGTH: 32
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/049,967

DATE: 03/01/2002
TIME: 14:49:53

Input Set : A:\P23294pc.app
Output Set: N:\CRF3\03012002\J049967.raw

65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
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71 <210> SEQ ID NO: 6
72 <211> LENGTH: 35
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
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80 gatgaagcca accaaactgc aacaaagatg ctggg 35
82 <210> SEQ ID NO: 7
83 <211> LENGTH: 34
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
90 <400> SEQUENCE: 7
91 cccagcatct ttgttgacgt ttggttggt tate 34
93 <210> SEQ ID NO: 8
94 <211> LENGTH: 27
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
101 <400> SEQUENCE: 8
102 gatgaagcca acgcacgtgc aacaaag 27
104 <210> SEQ ID NO: 9
105 <211> LENGTH: 35
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
112 <400> SEQUENCE: 9
113 cccagcatct ttgttgacgt tgcgttggt tcate 35
115 <210> SEQ ID NO: 10
116 <211> LENGTH: 35
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
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121 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
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124 gatgaagcca accaagctgc aacaaagatg ctggg 35
126 <210> SEQ ID NO: 11
127 <211> LENGTH: 35
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:

RAW SEQUENCE LISTING

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DATE: 03/01/2002

TIME: 14:49:53

Input Set : A:\P23294pc.app

Output Set: N:\CRF3\03012002\J049967.raw

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132 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
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135 cccagcatct ttgttgacgc ttggttggtc tcacg                               35
137 <210> SEQ ID NO: 12
138 <211> LENGTH: 41
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
145 <400> SEQUENCE: 12
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148 <210> SEQ ID NO: 13
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150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
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156 <400> SEQUENCE: 13
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159 <210> SEQ ID NO: 14
160 <211> LENGTH: 42
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
167 <400> SEQUENCE: 14
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170 <210> SEQ ID NO: 15
171 <211> LENGTH: 42
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
178 <400> SEQUENCE: 15
179 accacttccc agcatctttt atgcagtttg gttggcttca tc                               42
181 <210> SEQ ID NO: 16
182 <211> LENGTH: 42
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
189 <400> SEQUENCE: 16
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193 <211> LENGTH: 42
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/049,967

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TIME: 14:49:53

Input Set : A:\P23294pc.app

Output Set: N:\CRF3\03012002\J049967.raw

200 <400> SEQUENCE: 17
201 accacttccc agcatctatg ttgcagtttg gttggcttca tc 42
203 <210> SEQ ID NO: 18
204 <211> LENGTH: 36
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
211 <400> SEQUENCE: 18
212 gccaaccaac gtgcaacaaa gatgtaggga agtggg 36
214 <210> SEQ ID NO: 19
215 <211> LENGTH: 36
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
222 <400> SEQUENCE: 19
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225 <210> SEQ ID NO: 20
226 <211> LENGTH: 10
227 <212> TYPE: PRT
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
233 <400> SEQUENCE: 20
234 Gln Arg Ala Thr Lys Met Leu Gly Ser Gly
235 1 5 10
238 <210> SEQ ID NO: 21
239 <211> LENGTH: 10
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide - same
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247 Gln Thr Ala Thr Lys Met Leu Gly Ser Gly
248 1 5 10
251 <210> SEQ ID NO: 22
252 <211> LENGTH: 7
253 <212> TYPE: PRT
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide - same
259 <400> SEQUENCE: 22
260 Gln Arg Ala Thr Lys Met Leu
261 1 5
264 <210> SEQ ID NO: 23
265 <211> LENGTH: 7
266 <212> TYPE: PRT
267 <213> ORGANISM: Artificial Sequence

→ unacceptable;
must explain genetic
Source, see error
Summary sheet, item 11

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/049,967

DATE: 03/01/2002

TIME: 14:49:53

Input Set : A:\P23294pc.app

Output Set: N:\CRF3\03012002\J049967.raw

269 <220> FEATURE:
270 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide - same
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274 1 5
277 <210> SEQ ID NO: 24
278 <211> LENGTH: 6
279 <212> TYPE: PRT
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide - same
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287 1 5
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291 <211> LENGTH: 6
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide - same
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300 1 5
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304 <211> LENGTH: 5
305 <212> TYPE: PRT
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
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313 1 5
316 <210> SEQ ID NO: 27
317 <211> LENGTH: 5
318 <212> TYPE: PRT
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide - same
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325 Gln Thr Ala Thr Lys
326 1 5
329 <210> SEQ ID NO: 28
330 <211> LENGTH: 4
331 <212> TYPE: PRT
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide - same
337 <400> SEQUENCE: 28
338 Gln Thr Gln Thr

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/049,967

DATE: 03/01/2002

TIME: 14:49:55

Input Set : A:\P23294pc.app

Output Set: N:\CRF3\03012002\J049967.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date